Amendments to the claims:

Claims 1 - 13 (canceled)

Claims 14-21 (withdrawn)

Claim 22 (currently amended): A network configured to transfer data using time-division multiplexing comprising:

    a first wireless interface including

        a physical layer interface,

        an optical transceiver coupled to the physical layer interface and configured to convert an outgoing data stream from an outgoing electrical signal to an outgoing optical signal, and

        a media abstraction unit coupled to the optical transceiver and configured to reframe the outgoing data stream from the outgoing optical signal to a second outgoing electrical signal suited for wireless transmission, wherein the media abstraction unit comprises a link quality management unit configured to adapt one or more parameters of the first wireless interface to provide more reliable data transmission, the link quality management unit including

            an error correction code encoding unit configured to add redundancy to an outgoing data stream, and

            an ECC level control unit coupled to the error correction code encoding unit;

    a second wireless interface;

    a first network node including the first wireless interface and a second wireless interface;

    a cross connect switch coupled to the physical layer interface of the first wireless interface and the second wireless interface;

    a second network node having a third wireless interface coupled to the first wireless interface of the first network node; and

a third network node coupled to the first network node and the second network node.

Claim 23 (original): The network of claim 22, wherein the ECC level control unit controls the amount of redundancy added by the error correction code encoding unit.

Claim 24 - 44 (withdrawn)